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### (54) DC LINE FILTER

#### (57) Abstract:

**PROBLEM TO BE SOLVED:** To provide a DC line filter that has backup function with which output voltage to the next stage will not drop momentarily, even when an output voltage of an AC/DC converter is decreased.

**SOLUTION:** X and Y capacitors are provided to one end of a common mode choke coil and a static capacitance of an X capacitor provided to the other end to satisfy a prescribed time constant, with respect to the input resistance of a load unit is selected in a range of 100  $\mu$ F-470 mF. Furthermore, an electrolytic capacitor

with a diode, connected in parallel therewith and a fuse connected in series therewith, is employed for the X capacitor and configures the DC line filter further provided with a discharge resistor.

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